	Application No.	Applicant(s)
	40/094 749	TOKUNAGA ET AL.
Notice of Allowability	10/081,718 Examiner	Art Unit
	KHAI TRAN	2637
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication GHTS. This application is subject to	plication. If not included will be mailed in due course. THIS
1. 🔀 This communication is responsive to the application filed 2	<u>/25/02</u> .	
2. The allowed claim(s) is/are <u>1-15</u> .		
3. The drawings filed on 15 January 2004 are accepted by the	e Examiner.	
 4. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	been received. been received in Application No	
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give		
6. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.	
(a) including changes required by the Notice of Draftspers	on's Patent Drawing Review (PTO-	948) attached
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date		•
(b) including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the C	Office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the		
 DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT 		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. ☐ Notice of Informal R	atent Application (PTO-152)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary	,, , , ,
	Paper No./Mail Da	te
3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date <u>2 sheets</u>		
 Examiner's Comment Regarding Requirement for Deposit of Biological Material 		ent of Reasons for Allowance
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REASONS FOR ALLOWANCE

Allowable Subject Matter

- 1. Claims 1-15 are allowed.
- 2. The following is an examiner's statement of reasons for allowance: none of the prior art of the record discloses or suggests a waveform equalization apparatus comprising: a plurality of transversal filters for performing filtering processes for waveform equalization on the digital input signal; plural selectors for selecting a connection of lines which interconnect of the first or second input terminal, the plural transversal filters, and the first or second output terminal; and a filter construction control signal generator for generating a filter construction control signal which controls the plural selectors to control the filter construction such that the whole apparatus becomes a real component filter when the digital input signal is a signal having only a real component, and becomes a complex filter when the digital input signal is a signal having both a real component and an imaginary component as recited in claim 1; fist to fourth transversal filter units performing filtering processes for waveform equalization; a delay means for delaying an input signal to output a delayed signal; and first and second tap coefficient control means for controlling tap coefficients of the first to fourth TF units as recited in claim 6; a structure of four transceiver filter and six selectors, and two tap coefficient control means for processing a waveform equalization as recited in claims 10, 14, and 15.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Kurokami (U.S. Pat. 5,285,475) discloses decision feedback equalizer.

Mizoguchi (U.S. Pat. 5,321,723) discloses automatic equalizer.

Ando (U.S. 2001/0026578) A1 disclose code division multiple access transmitter and receiver.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to KHAI TRAN whose telephone number is (571) 272-3019. The examiner can normally be reached on 7:00AM - 4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, JAY PATEL can be reached on (571) 272-2988. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Manghanghan
KHAI TRAN
Primary Examiner
Art Unit 2637

11/23/04